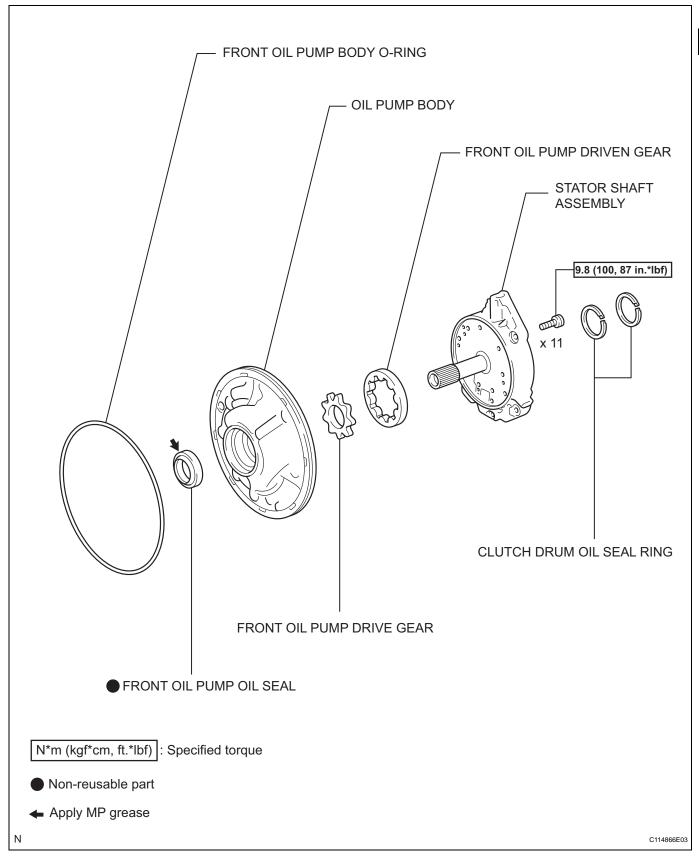
OIL PUMP

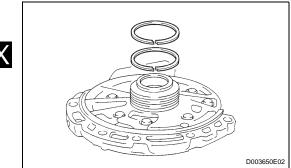
COMPONENTS

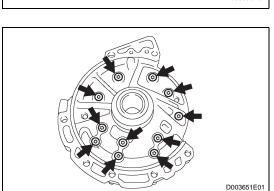




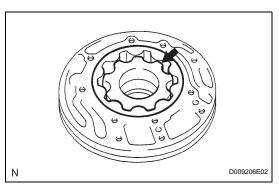
DISASSEMBLY

- 1. INSPECT OIL PUMP ASSEMBLY (See page AX-247)
- 2. REMOVE CLUTCH DRUM OIL SEAL RING
 - (a) Remove the 2 clutch drum oil seal rings.

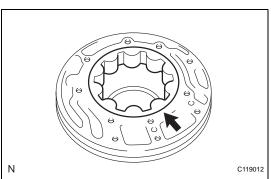




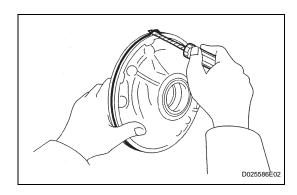
- 3. REMOVE STATOR SHAFT ASSEMBLY
 - (a) Using a T30 "torx" socket, remove the 11 bolts and stator shaft.
- 4. INSPECT CLEARANCE OF OIL PUMP ASSEMBLY (See page AX-247)



5. REMOVE FRONT OIL PUMP DRIVE GEAR



6. REMOVE FRONT OIL PUMP DRIVEN GEAR

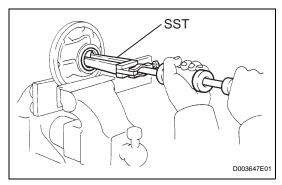


7. REMOVE FRONT OIL PUMP BODY O-RING

(a) Using a screwdriver, pry out the O-ring. HINT:

Tape the screwdriver tip before use.

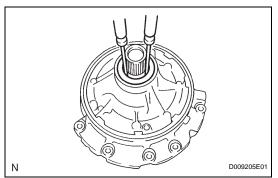




8. REMOVE FRONT OIL PUMP OIL SEAL

- (a) Mount the oil pump in a soft jaw vise.
- (b) Using SST, remove the oil seal from the oil pump body.

SST 09308-00010



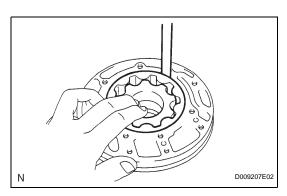
INSPECTION

1. INSPECT OIL PUMP ASSEMBLY

(a) Turn the drive gear with 2 screwdrivers and make sure that it rotates smoothly.

NOTICE:

Be careful not to damage the lip of the oil seal.



2. INSPECT CLEARANCE OF OIL PUMP ASSEMBLY

- (a) Push the driven gear to one side of the body.
- (b) Using a feeler gauge, measure the body clearance between the driven gear and oil pump body.

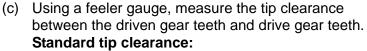
Standard body clearance:

0.10 to 0.17 mm (0.0039 to 0.0067 in.)

Maximum body clearance:

0.17 mm (0.0067 in.)

If the body clearance is greater than the maximum, replace the oil pump body sub-assembly.

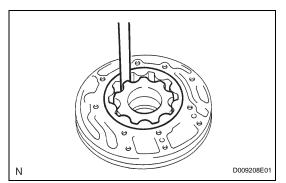


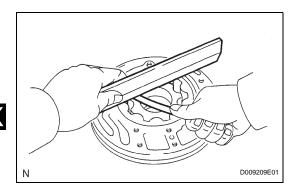
0.07 to 0.15 mm (0.0028 to 0.0059 in.)

Maximum tip clearance:

0.15 mm (0.0059 in.)

If the tip clearance is greater than the maximum, replace the oil pump body.





(d) Using a straightedge and feeler gauge, measure the side clearance of both gears.

Standard side clearance:

0.02 to 0.05 mm (0.0008 to 0.0020 in.)

Maximum side clearance:

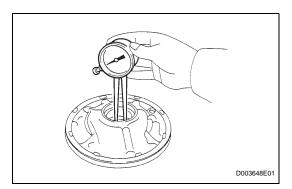
0.05 mm (0.0020 in.)

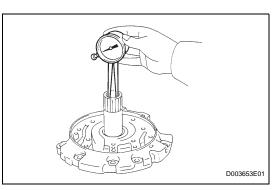
Standard drive gear thickness

Mark	Thickness
Α	11.690 to 11.699 mm (0.4602 to 0.4606 in.)
В	11.700 to 11.709 mm (0.4606 to 0.4610 in.)
С	11.710 to 11.720 mm (0.4610 to 0.4614 in.)
D	11.721 to 11.730 mm (0.4615 to 0.4618 in.)
Е	11.731 to 11.740 mm (0.4619 to 0.4622 in.)

Standard driven gear thickness

Mark	Thickness
Α	11.690 to 11.699 mm (0.4602 to 0.4606 in.)
В	11.700 to 11.709 mm (0.4606 to 0.4610 in.)
С	11.710 to 11.720 mm (0.4610 to 0.4614 in.)
D	11.721 to 11.730 mm (0.4615 to 0.4618 in.)
Е	11.731 to 11.740 mm (0.4619 to 0.4622 in.)





3. INSPECT FRONT OIL PUMP AND GEAR BODY SUB-ASSEMBLY

(a) Using a caliper gauge, measure the inside diameter of the oil pump body bushing.

Standard inside diameter:

38.113 to 38.138 mm (1.5005 to 1.5015 in.)

Maximum inside diameter:

38.188 mm (1.5035 in.)

If the inside diameter is greater than the maximum, replace the oil pump body sub-assembly.

4. INSPECT STATOR SHAFT ASSEMBLY

(a) Using a caliper gauge, measure the inside diameter of the stator shaft.

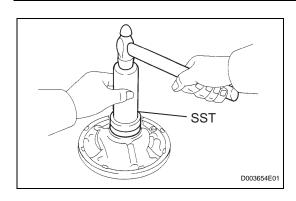
Standard inside diameter:

21.500 to 21.526 mm (0.8465 to 0.8475 in.)

Maximum inside diameter:

21.57 mm (0.8492 in.)

If the inside diameter is greater than the maximum, replace the stator shaft.



REASSEMBLY

1. INSTALL FRONT OIL PUMP OIL SEAL

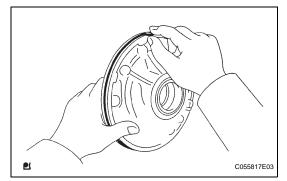
(a) Using SST and a hammer, tap in a new oil seal to the oil pump body.

SST 09350-32014 (09351-32140) HINT:

The seal end should be flat with the outer edge of the oil pump.

(b) Coat the lip of the oil seal with MP grease.



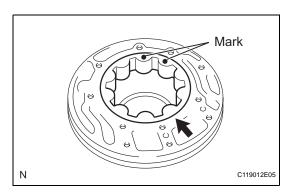


2. INSTALL FRONT OIL PUMP BODY O-RING

(a) Coat a new O-ring with ATF, and install it to the oil pump body.

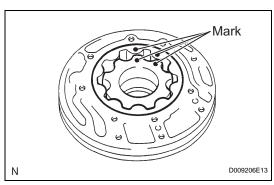
NOTICE:

- Make sure that the O-ring is not twisted or pinched.
- Apply enough ATF to the O-ring before installation.



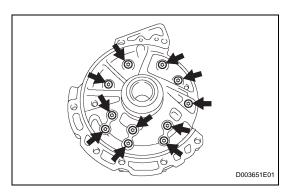
3. INSTALL FRONT OIL PUMP DRIVEN GEAR

(a) Coat the front oil pump driven gear with ATF, and install it to the oil pump body with the marked side facing upward.



4. INSTALL FRONT OIL PUMP DRIVE GEAR

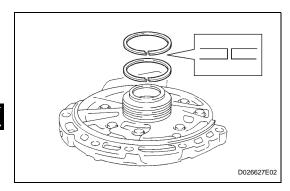
(a) Coat the front oil pump drive gear with ATF, and install it to the oil pump body with the marked side facing upward.



5. INSTALL STATOR SHAFT ASSEMBLY

- (a) Set the stator shaft and align it with each bolt hole.
- (b) Using a T30 "torx" socket, install the 11 bolts.

Torque: 9.8 N*m (100 kgf*cm, 87 in.*lbf)



6. INSTALL CLUTCH DRUM OIL SEAL RING

- (a) Coat 2 new oil seal rings with ATF.
- (b) Install 2 new clutch drum oil seal rings. **NOTICE:**

Do not expand the ring ends excessively.

7. INSPECT OIL PUMP ASSEMBLY (See page AX-247)

